

PROPOSED CLAIMS

United States Application Serial No. 09/910,582
MWE Client/Matter 66654-668 (P-LJ 4857)

Please cancel claim 34.

Please add new claims 35 and 36.

b/ 20: A conjugate, comprising a heart homing peptide linked to a moiety, said heart homing peptide comprising an amino acid sequence selected from the group consisting of

GGGVFWQ (SEQ ID NO: 2);

HGRVRPH (SEQ ID NO: 3);

VVLVTSS (SEQ ID NO: 4);

CLHRGNSC (SEQ ID NO: 9); and

CRSWNKADNRSC (SEQ ID NO: 10), or a functionally equivalent modification peptidomimetic thereof.

21. The conjugate of claim 20, wherein said moiety is selected from the group consisting of a therapeutic agent, a detectable agent and a tag.

22. The conjugate of claim 20, wherein said therapeutic agent is a vascular endothelial growth factor (VEGF).

23. The conjugate of claim 20, wherein said therapeutic agent is a fibroblast growth factor (FGF).

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24. A method of treating a cardiovascular disease in a subject, comprising administering to a subject in need thereof a conjugate comprising a heart homing peptide linked to a therapeutic agent,

said peptide comprising an amino acid sequence selected from the group consisting of

GGGVFWQ (SEQ ID NO: 2);

HGRVRPH (SEQ ID NO: 3);

VVLVTSS (SEQ ID NO: 4);

CLHRGNSC (SEQ ID NO: 9); and

CRSWNKADNRSC (SEQ ID NO: 10), or a functionally equivalent modification peptidomimetic thereof.

25. The method of claim 24, wherein said cardiovascular disease is atherosclerosis.

26. The method of claim 24, wherein said cardiovascular disease is restenosis.

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31. A conjugate, comprising a peptide that selectively homes to ischemic tissue, said peptide linked to a moiety.

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32. The conjugate of claim 31, said peptide comprising an ~~the~~ amino acid sequence selected from the group consisting of

GGGVFWQ (SEQ ID NO: 2);

HGRVRPH (SEQ ID NO: 3);

VVLVTSS (SEQ ID NO: 4);

CLHRGNSC (SEQ ID NO: 9); and

CRSWNKADNRSC (SEQ ID NO: 10), or a functionally equivalent peptidomimetic thereof.

33. The conjugate of claim 32, wherein said moiety is selected from the group consisting of a therapeutic agent, a detectable agent and a tag.

34. A method of treating ischemic disease in a subject, comprising administering a conjugate comprising an ischemic tissue selective peptide that selectively homes to ischemic tissue, said peptide linked to a moiety.

35. The method of claim 24, wherein said cardiovascular disease comprises ischemia.

36. A conjugate, comprising a heart homing peptide that selectively homes to cardiac tissue, comprising an amino acid sequence that has a length of less than 100 amino acids.